

ABSTRACT

A vehicle window glass lifting mechanism comprises a sliding member for a window glass, a cable for driving the sliding member. The cable is connected to the sliding member and a motor drives the cable. The window glass lifting mechanism comprises a sensor for measuring tension in the cable. The mechanism allows measurement of the mechanical stress in one of its parts. This measurement is represented by the tension exercised on a window glass drive cable, to be measured without delay. Entrapment of an object is determined by detecting an increase in cable tension, detection being rapid and allowing limitation of a force exercised on an object trapped by the window glass. A method for determining entrapment by a window glass is also provided consisting in measuring the tension in a window glass drive cable, comparing the measured tension with an entrapment threshold and determining an object is trapped when the measured tension exceeds this threshold. The device and method can for example be used to stop or reverse the drive of the cable by an electric motor.